SAMSUNG

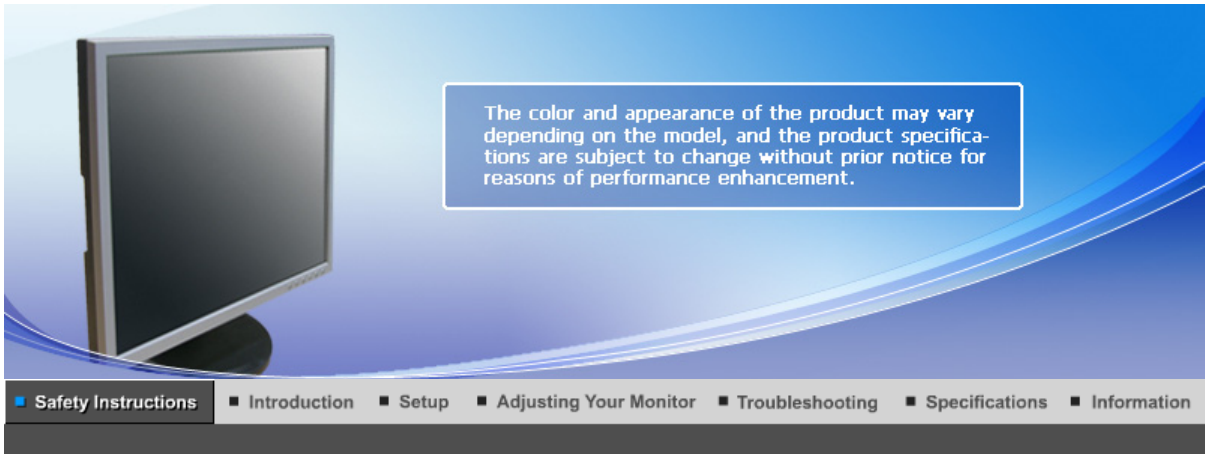
SyncMaster 940UX

Install driver

- Microsoft Windows
- USB Monitor

Install programs

- Natural Color


The color and appearance of the product may vary depending on the model, and the product specifications are subject to change without prior notice for reasons of performance enhancement.
Safety Instructions
Introduction
Setup
Adjusting Your Monitor
Troubleshooting
Specifications
Information

Notational

Please read the following safety instructions as they are designed to prevent damage to property and harm to the user.

Warning / Caution

Failure to follow directions noted by this symbol could result in bodily harm or damage to the equipment.

Notational Conventions

Prohibited

Important to read and understand at all times

Do not disassemble

Disconnect the plug from the outlet

Do not touch

Ground to prevent an electric shock

Power

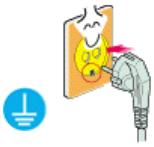
When not used for an extended period of time, set your computer to DPM.
If using a screen saver, set it to active screen mode.

The images here are for reference only, and are not applicable in all cases (or countries).

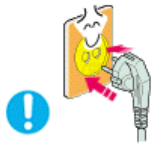
Shortcut to Anti-Afterimage Instructions

- **Do not use a damaged or loose plug.**
  - This may cause electric shock or fire.

- **Do not pull the plug out by the wire nor touch the plug with wet hands.**
  - This may cause electric shock or fire.

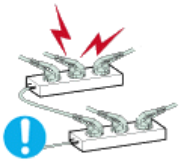


- **Use only a properly grounded plug and receptacle.**
  - An improper ground may cause electric shock or equipment damage. (Class I Equipment only.)



- **Insert the power plug firmly so that it does not come loose.**
  - A bad connection may cause fire.

- **Do not excessively bend the plug and wire nor place heavy objects upon them, which could cause damage.**
  - This may cause electric shock or fire.



- **Do not connect too many extension cords or plugs to one outlet.**
  - This may cause fire.

- **Do not disconnect the power cord while using the monitor.**
  - A surge may be caused by the separation and may damage the monitor.

- **Do not use the power cord when the connector or plug is dusty.**
  - If the connector or plug of the power cord is dusty, clean it with a dry cloth.
  - Using the power cord with a dusty plug or connector may cause electric shock or fire.

- **To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.**
  - This may cause electric shock or fire.

Installation

Be sure to contact an authorized Service Center, when installing your monitor in a location with heavy dust, high or low temperatures, high humidity, and exposed to chemical substances and where it operates for 24 hours such as at airports, train stations etc.

Failure to do so may cause serious damage to your monitor.

Place your monitor in a location with low humidity and a minimum of dust.

- Failure to do so may cause electric shock or fire inside the monitor.

Do not drop the monitor when moving it.

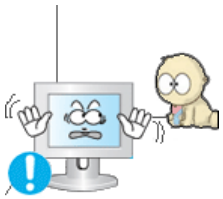
- This may cause damage to the product or the person carrying it.

Install the monitor base in a showcase or shelf so that the end of the base does not protrude from the showcase or shelf.

- Dropping the product may cause damage to the product or the person carrying it.

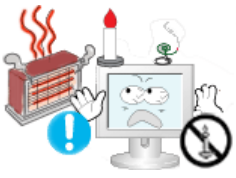
Do not place the product on an unstable or small surface area.

- Place the product on an even and stable surface, as the product may fall and cause harm to someone walking by, specifically children.



Do not place the product on the floor.

- Take care, as someone, specifically children may trip over it.



TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OTHER OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.

- Otherwise, this may cause fire.A melted coating may cause electric shock or fire.

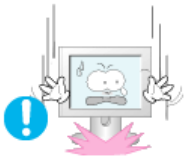
Keep any heating devices away from the power cable.

- A melted coating may lead to electric shock or fire.

Do not install the product in places with poor ventilation, for instance, a

bookshelf, closet, etc.

- Any increase in the internal temperature may cause fire.



Put down the monitor carefully.

- Failing to do so may damage the monitor.

Do not place the monitor face down.

- This may damage the TFT-LCD surface.The installation of the bracket must be done by a qualified professional.

Installing a wall bracket must be done by a qualified professional.

- Installing the bracket by unqualified personnel may result in injury.
- Always use the mounting device specified in the owner's manual.

When installing the product, make sure to keep it away from the wall (more than 10 cm/4 inches) for ventilation purposes.

- Poor ventilation may cause an increase in the internal temperature of the product, resulting in a shortened component life and degraded performance.

Keep the plastic packaging (bag) out of children's reach.

- The plastic packaging (bag) may cause suffocation if children play with it.

Clean

When cleaning the monitor case or the surface of the TFT-LCD screen, wipe with a slightly moistened, soft fabric.

Do not spray water or detergent directly onto the monitor.

- This may cause damage, electric shock or fire.

- **Use the recommended detergent with a smooth cloth.**

- **If the connector between the plug and the pin is dusty or dirty, clean it properly using a dry cloth.**
  - A dirty connector may cause electric shock or fire.

- **Make sure to unplug the power cord before cleaning the product.**
  - Otherwise, this may cause electric shock or fire.

- **Unplug the power cord from the power outlet and wipe the product using a soft, dry cloth.**
  - Do not use any chemicals such as wax, benzene, alcohol, thinners, insecticide, air freshener, lubricant or detergent.

- **Contact the SAMSUNG customer care center or Customer Center for interior cleaning once a year.**
  - Keep the product's interior clean. Dust which has accumulated in the interior over an extended period of time may cause a malfunction or fire.

Others

- **Do not remove the cover (or back).**
  - This may cause electric shock or fire.
  - Refer to a qualified servicing company.

- **If your monitor does not operate normally - in particular, if there is any unusual sound or smell coming from the monitor - unplug it immediately and contact an authorized dealer or the Service Center.**
  - This may cause electric shock or fire.

- **Keep the product away from places exposed to oil, smoke or moisture; do not install inside a vehicle.**
  - This may cause a malfunction, electric shock or fire.
  - In particular, avoid operating the monitor near water or outdoors where the monitor could be exposed to snow or rain.

If the monitor is dropped or the casing is damaged, turn the monitor off and unplug the power cord. Then contact the Service Center .

- The monitor may malfunction, causing electric shock or fire.

Disconnect the plug from the outlet during storms or lightning or if it is not used for a long period of time.

- Failure to do so may cause electric shock or fire.

Do not try to move the monitor by pulling only the wire or the signal cable.

- This may cause a breakdown, electric shock or fire due to damage to the cable.

Do not move the monitor right or left by pulling only the wire or the signal cable.

- This may cause a breakdown, electric shock or fire due to damage to the cable.

Do not cover the vents on the monitor cabinet.

- Bad ventilation may cause a breakdown or fire.

Do not place water containers, chemical products or small metal objects on the monitor.

- This may cause a malfunction, electric shock or fire.
- If a foreign substance enters the monitor, unplug the power cord and contact the Service Center.

Keep the product away from combustible chemical sprays or inflammable substances.

- This may cause an explosion or fire.

Never insert anything metallic into the monitor openings.

- This may cause electric shock, fire or injury.

Do not insert metal objects such as chopsticks, wire and tools or inflammable objects such as paper or matches into the vent, headphone port or AV ports or etc.

- This may cause electric shock or fire. If an alien substances or water enters the product, turn the product off, unplug the power connector from the wall outlet and contact the Service Center.

When viewing a fixed screen for an extended period of time, residual image or blurriness may appear.

- Change the mode to energy saving mode or set a screensaver to a changing picture when away from the monitor for an extended period of time.

Adjust the resolution and frequency to the level appropriate for the model.

- An inappropriate resolution may cause undesirable picture quality.

  19 inch (48 cm) - 1280 x 1024

Viewing the monitor continuously at a too close angle may result in damage to your eyesight.

To ease eye strain, take at least a five-minute break after every hour of using the monitor.

Do not install the product on an unstable, uneven surface or a location prone to vibrations.

- Dropping the product may cause damage to the product or the person carrying it. Using the product in a location prone to vibrations may shorten the lifetime of the product or may cause the product to catch fire.

When moving the monitor, turn off and unplug the power cord.
Make sure that all cables, including the antenna cable and cables connected to other devices, are disconnected before moving the monitor.

- Failure to disconnect cables may damage it and cause fire or electric shock.

Place the product out of children's reach, as they could damage by hanging onto it.

- A falling product may cause injury to the person or even fatality.

When not using the product for an extended period of time, keep the product unplugged.

- Otherwise, this may cause heat emission from the accumulated dirt or degraded insulation, causing electric shock or fire.

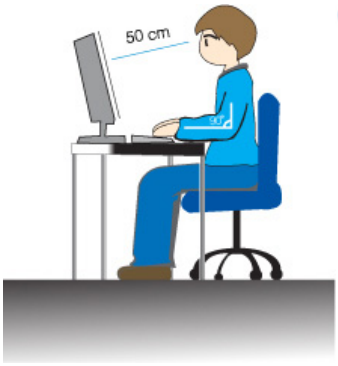
Do not place your children's favorite toys or any other objects of interest on the product.

- Children may try to climb on the product to retrieve an object. The product could fall, causing injury or even fatality.

When lifting up or moving the monitor, do not lift the monitor upside down while holding only the stand.

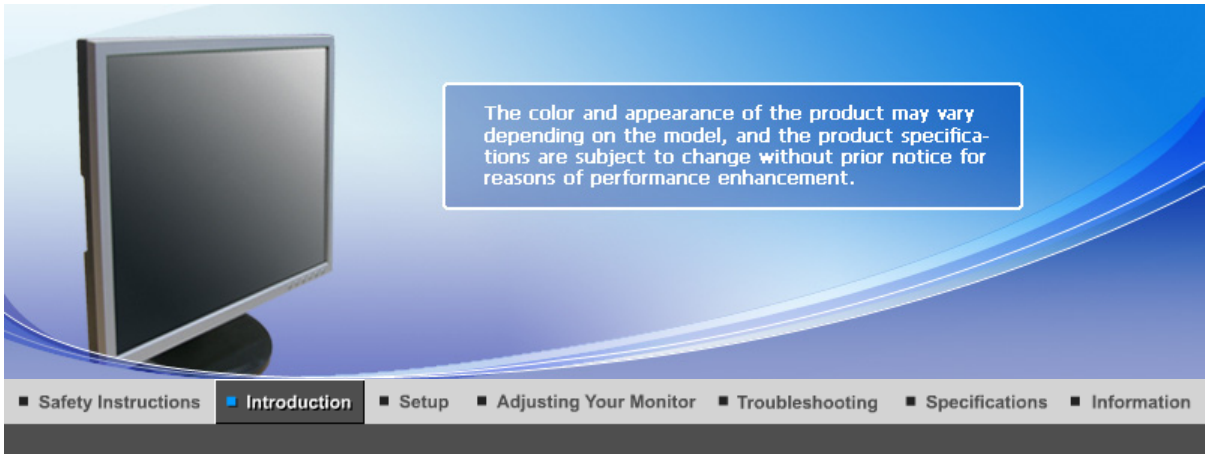
- This may cause your monitor to fall, and become damaged or cause personal injury.

Good Postures When Using the Monitor



Try to maintain a good posture when using the monitor.

- Keep your back straight.
- Keep a distance of about 45 ~ 50 cm between your eyes and the monitor screen. Look at the screen from slightly above it, and have the monitor directly in front of you.
- Tilt the monitor upwards by 10 ~20 degrees. Adjust the monitor height so that the top of the monitor is slightly below eye level.
- Adjust the monitor angle so that there is no reflected light on the screen.Try to maintain your arms perpendicular to your armpits.
- Keep your arms level with the back of your hands.
- Keep the angle of the elbow perpendicular.
- Keep the angle of the knees at more than 90 degree. Do not let your feet fall up from the floor. Adjust the arm position so that it is below the heart.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Please make sure the following items are included with your monitor.
If any items are missing, contact your dealer.
Contact a local dealer to buy optional items.

Unpacking

Without stand

Monitor

With stand

Monitor & Sliding Stand

Manual

Quick Setup Guide

Warranty Card
(Not available in all locations)

User's Guide, Monitor Driver, Natural Color software

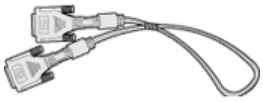
Cable

D-sub Cable

Power Cord

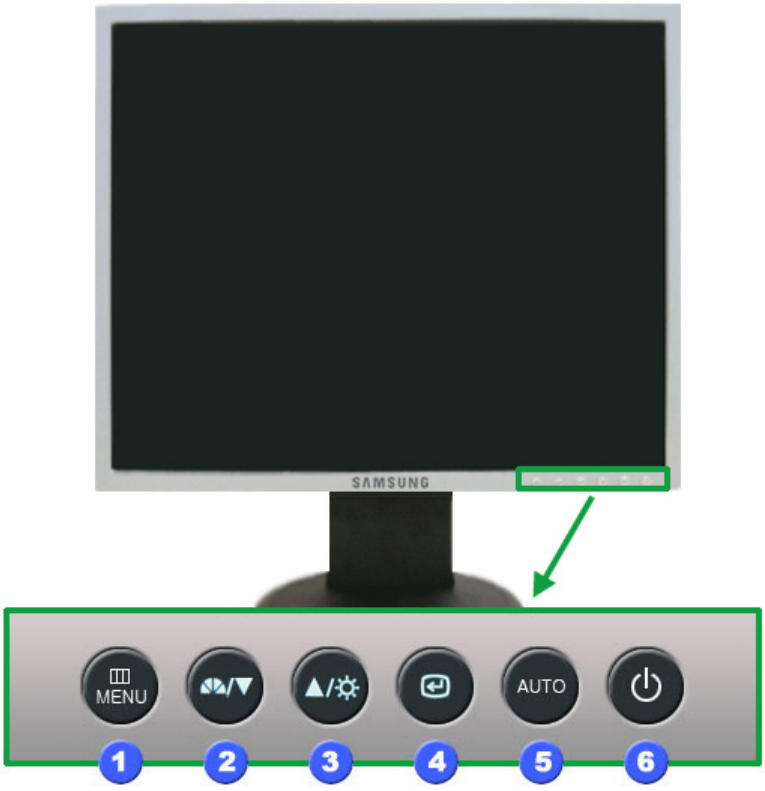
USB Cable

Sold separately



DVI-D Cable

Front



1. **MENU button [▥]** Opens the OSD menu. Also use to exit the OSD menu or return to the previous menu.
2. **MagicBright™ [ ]** MagicBright™ is a new feature providing optimum viewing environment depending on the contents of the image you are watching. Currently seven different modes are available: Custom, Text, Internet, Game,

Sport, Movie and Dynamic Contrast. Each mode has its own pre-configured brightness value. You can easily select one of seven settings by simply pressing MagicBright™ control button.

1) Custom
Although the values are carefully chosen by our engineers, the pre-configured values may not be comfortable to your eyes depending on your taste.
If this is the case, adjust the brightness and contrast by using the OSD menu.

2) Text
For documentations or work involving a lot of text.

3) Internet
For working with a mixture of images such as texts and graphics.

4) Game
For watching motion pictures such as a game.

5) Sport
For watching motion pictures such as a sport.

6) Movie
For watching motion pictures such as a DVD or Video CD.

7) Dynamic Contrast
Dynamic Contrast is to automatically detect distribution of inputted visual signal and adjust to create optimum contrast.

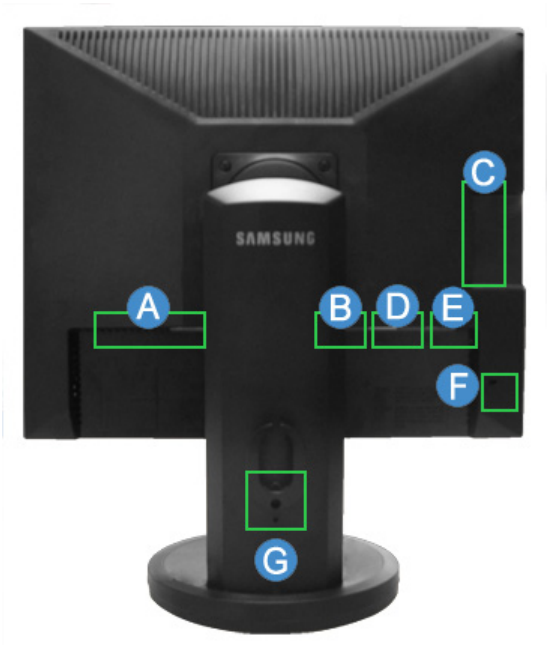
>>Click here to see an animation clip

3	**Brightness button [☼]**	When OSD is not on the screen, push the button to adjust brightness. >>Click here to see an animation clip ※ Not available in MagicBright™ mode of Dynamic Contrast.
2,3	**Adjust buttons [▼/▲]**	Adjust items in the menu.
4	**Enter button [⏎]**	Activates a highlighted menu item. Press this to select the type of signal. [Digital - Analog - USB] : [Digital - Analog - USB] If the monitor is used as a USB monitor (when connected via USB cable), select USB mode by clicking the Enter icon.
5	**AUTO button [AUTO]**	Use this button for auto adjustment. >>Click here to see an animation clip
6	**Power button [⏻]/ Power indicator**	Use this button for turn the monitor on and off. This light glows blue during normal operation, and blinking blue once as the monitor saves your adjustments.

Make sure to turn off your USB monitor after clicking on the “Remove hardware safely” icon on the taskbar of your PC and unloading the USB device from Windows.Otherwise, your monitor may not work normally.If your monitor does not turn on, reboot your PC.

See PowerSaver described in the manual for further information regarding power saving functions. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods.

Rear



(The configuration at the back of the monitor may vary from product to product.)

1 ON [|] / OFF [O]
Switch the monitor on and off.

2 POWER
Connect the power cord for your monitor to the **POWER** on the back of the monitor.

Connect the ⇆ of the monitor and the USB of the computer with the USB cable.

Connect the ⇆ of the USB monitor and a USB device with the USB cable.

- **To use ⇆ (C) , you have to connect the ⇆ (B) to the PC.**
- **Make sure to use the USB cable supplied with this monitor to connect the monitor's B and your computer's USB.**

DVI IN
Connect the DVI Cable to the **DVI IN** on the back of your monitor.

E

RGB IN
Connect the signal cable to the 15-pin, **RGB IN** on the back of your monitor.

F

Kensington Lock
The Kensington lock is a device used to physically fix the system when using it in a public place.
(The locking device has to be purchased separately.)

For using a locking device, contact where you purchase it.

G

Stand Stopper
Remove the fixing pin on the stand to lift the monitor up and down.

See Connecting the Monitor for further information regarding cable connections.

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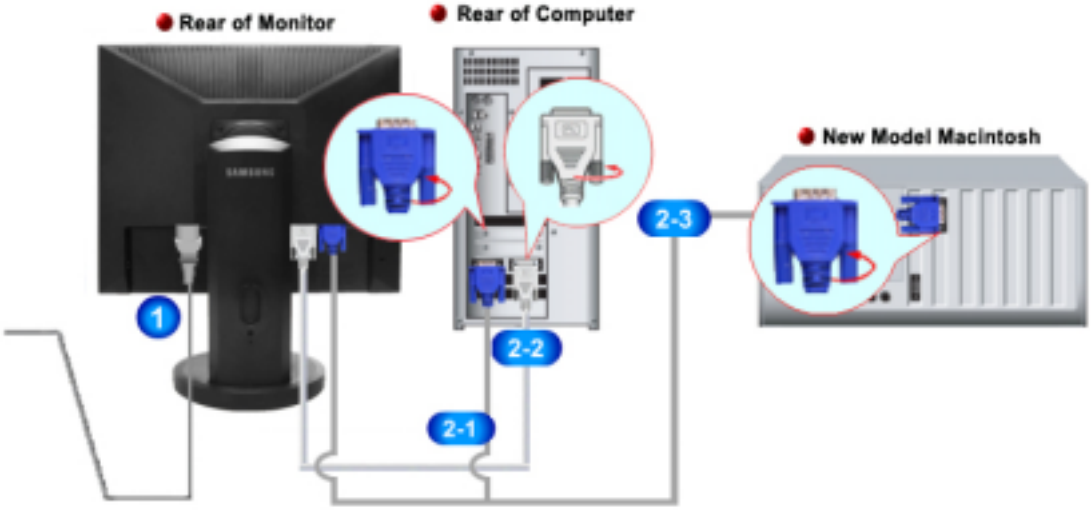
Connecting the Monitor



1. Connect the power cord for your monitor to the power port on the back of the monitor.
   Plug the power cord for the monitor into a nearby outlet.
2. Use appropriate connection for your computer.

   2-1 Using the D-sub (Analog) connector on the video card.
   Connect the signal cable to the 15-pin, D-sub port on the back of your monitor.

   [RGB IN]

   2-2 Using the DVI (Digital) connector on the video card.
   Connect the DVI Cable to the DVI IN port on the back of your monitor.

   [DVI IN]

   2-3 Connected to a Macintosh.
   Connect the monitor to the Macintosh computer using the D-sub connection cable.

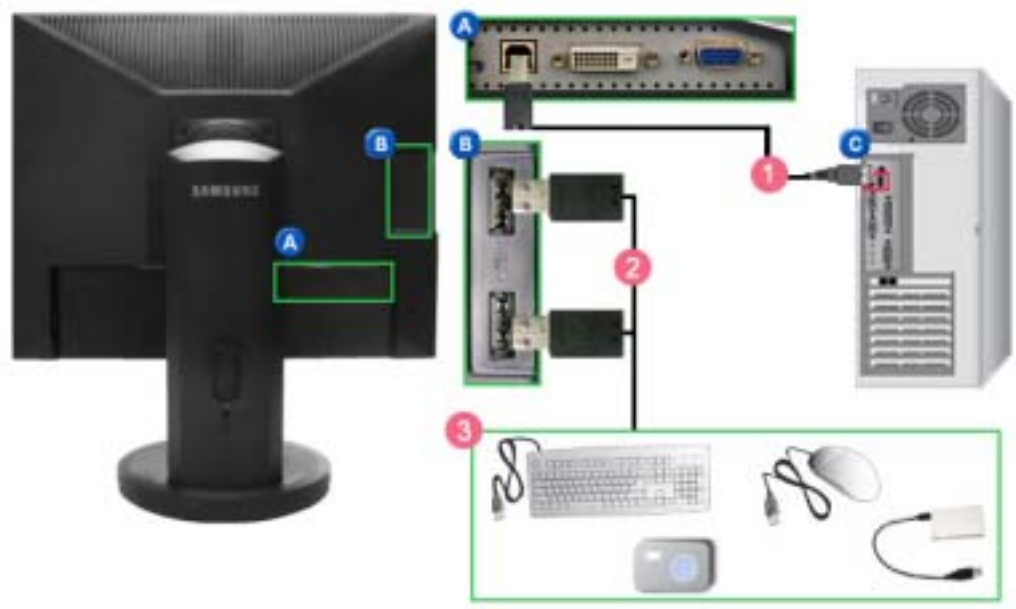
If the monitor and the computer are connected, you can turn them on and use them.

Connecting USB

You can use a USB device such as a mouse, keyboard, Memory Stick or external hard disk drive by connecting them to the B of the monitor without connecting them to the PC.

The USB of the monitor supports High-Speed Certified USB 2.0.

	High speed	Full speed	Low speed
Data Rate	480 Mbps	12 Mbps	1.5 Mbps



1 Connect the A of the monitor and the USB of the computer with the USB cable.

To use B, you have to connect the A to the PC.

Make sure to use the USB cable supplied with this monitor to connect the monitor's A and your computer's USB port.

2 Connect the B of the USB monitor and a USB device with the USB cable.

3 The use procedures are as the same as those for using an external device connecting to the PC.

- You can connect and use a keyboard and mouse.
- You can play a file from a media device.
  (Examples of media devices: MP3, digital camera, etc.)
- You can run, move, copy or delete the files on the storage device.
  (Examples of storage devices: external memory, memory card, memory reader, HDD-type MP3 player, etc.)
- You can use other USB devices that can be connected to a computer.

- **When connecting a device to the B of the monitor, connect the device using an appropriate cable to the device.**
  (For the purchase of the cable and external devices, ask the service center of the corresponding product.)

- **The company is not liable for problems or damages to an external device caused by using an unauthorized cable for the connection.**
- **Some products do not follow the USB standard, and it may cause a malfunction of the device.**
- **If the device malfunctions even if it is connected to the computer, contact the service center of the device/computer.**

USB monitor

You can use this product as a monitor simply by connecting the power cable and the USB cable to your PC.

Minimum hardware requirements

1. When connecting one (1) or two (2) USB monitors
Minimum hardware requirements: 1.2 GHz CPU / 512 MB memory
Display: One monitor can support DVD quality resolution in full screen mode.
(It may not support a sufficient frame speed during playback.)

2. When connecting three (3) USB monitors
Minimum hardware requirements: 1.8 GHz CPU / 1GB memory
Display: One monitor can support DVD quality resolution in full screen mode.
(It may not support a sufficient frame speed during playback.)

3. Monitor connection: Multiple screens of 6 monitors
Minimum hardware requirements: 1.6 GHz Dual core CPU / 1 GB memory
Display: One monitor can support DVD quality resolution in full screen mode.
(It may not support a sufficient frame speed during playback.)

When connecting serially

You can connect up to four (4) USB monitors serially.

When connecting in parallel

You can connect up to six (6) USB monitors in parallel.
When connecting external devices to the USB monitor, you can only connect up to four (4) devices.

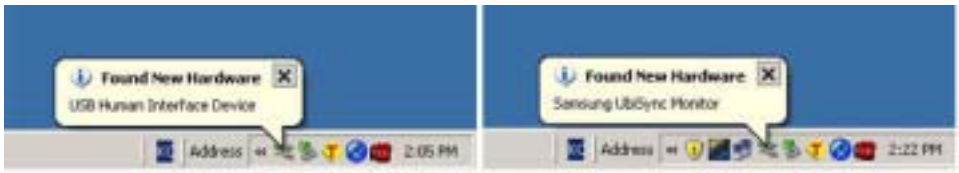
Installing Your USB Monitor

- **Make sure to connect the USB cable and begin the installation after your PC has booted.**
- **The auto installation will take about one minute. If you turn off your monitor or remove the USB cable while the installation is in progress, it may cause a problem with your PC and Windows OS.**
- **The optimal resolution for this USB monitor is 1280 x 1024.**

Installation (Auto & Manual)

*****The installation method is subject to change without prior notice for product enhancement purposes.

1.If you connect your USB monitor to your PC, it recognizes the monitor and the "Found New Hardware" wizard is displayed, as shown in the figure below.



2.Click I Accept.

SOFTWARE END USER LICENCE AGREEMENT FOR
DISPLAYLINK MIRROR DRIVER and DISPLAYLINK GRAPHICS ADAPTER SOFTWARE
(THE "PROGRAM")
1. License

3.The installation is started automatically and the installation progress window is displayed, as shown in the figure below.

- Manual Installation: If the USB driver is not installed automatically, insert the provided USB Monitor Install CD into the CD-ROM drive of your PC. ‘Double-click My Computer on the Windows Desktop and click on User Manual (I:). The volume name of the removable storage disk (for example, E:, F:, G:) may be different depending on your computer environment.
Right-click it and select 'Open' from the displayed menu. Double-click the 'Setup' file and an installation progress window is displayed, as shown in the figure below. The remaining steps are the same as for the automatic installation.

4.When setup is finished, a monitor icon is created in the system tray at the bottom of the monitor screen, and the information for the installed USB monitor is displayed.

New display found: Samsung UbiSync Monitor
3. Samsung UbiSync Monitor (USB_0101-000000HHJP800004)
Use the icon here to control the new display.
Address
2:25 PM

5.When the installation is completed, configure the following settings to use multiple monitors.

5-1. Right-click on the ‘Windows Desktop’ and select ‘Properties’ from the displayed menu. The “Display Properties” window appears.

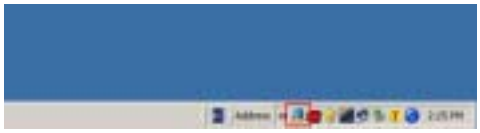
5-2. 'Select the “Settings” tab. A list of connected USB monitors is displayed.

5-3. Arrange the monitors displayed in the 'Display Properties' window in the order they are actually used.

5-4. Then click "OK" button.

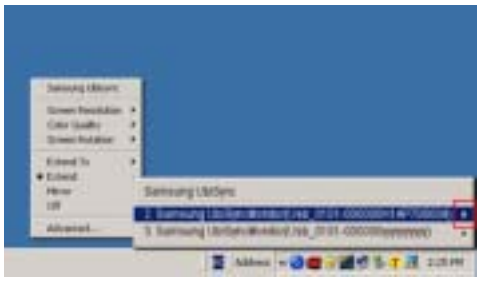
Configuring the USB Monitor Display Information

1.When the driver setup for the USB monitor is finished, a monitor icon is created in the system tray at the bottom of the monitor screen.



2.Click the monitor icon to display a list of connected USB monitors.
Example) The following figure shows when two USB monitors are connected.

3.Select the monitor for which you want to configure the display settings. You can configure the "Screen Resolution" , "Color Quality" and "Screen Rotation" settings for your monitor.



Checking the configuration

After the installation, you can check the configuration by following these steps.

1.'Right-click ‘My Computer’, and select ‘Properties’ – ‘System Properties’ – the ‘Hardware tab’.

2.Click ‘Device Manager’.

System Properties
System Restore
Automatic Updates
Remote
General
Computer Name
Hardware
Advanced
Device Manager
The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device.
Device Manager
Drivers
Driver Signing lets you make sure that installed drivers are compatible with Windows. Windows Update lets you set up how Windows connects to Windows Update for drivers.
Driver Signing
Windows Update
Hardware Profiles
Hardware profiles provide a way for you to set up and store different hardware configurations.
Hardware Profiles
OK
Cancel

3.A list of the installed device will be displayed, as shown in the figure below.

The Initial Screen Settings after Installing the Program

Applicable mode: Extend mode
Mode position: To the right of the primary screen
Mode rotation: 0°

USB Monitor - Limitation

Supported OS (Operating Systems)

Windows XP
- **Service Pack 1 or earlier: Unsupported**
- **Service Pack 2 or later: Supported**

Windows 2000
- **Service Pack 3 or earlier: Not Supported**
- **Service Pack 4 or later: Supported**

Windows Server 2003: Not Supported

Windows Vista: Supported. (64bit Not Supported)

*** To check the information on the operating system of your PC, right-click 'My Computer' on the 'Windows Desktop' and select 'Properties' from the displayed menu. Check the information in the 'General' tab of the 'Computer Properties' window.**

1. ***If you are using more than one USB monitor, first place the primary monitor in the leftmost position in the 'Display Properties - Settings' window before installing the USB monitor driver. (As shown in the figure on the left, if an existing monitor (a) is clicked, checkbox b must be checked.) Otherwise, no screen may be displayed on the existing primary monitor.***

※ ***Right-click on the 'Desktop' and select 'Properties' from the displayed menu.***

1. **Right-click on the 'Desktop' and select 'Properties' from the displayed menu.**
2. **If the 'Display Properties' window is not shown on the screen, press AltSpaceM and press Space Key again. Then press the arrow keys (← or →) until the 'Display Properties' window is displayed on the other monitor.**
3. **Select the deactivated monitor (a) in the 'Display Properties - Settings' window and then click b to activate it.**
4. **'Click 'Identify(I)' (c) to check the monitor numbers and then rearrange them according to their actual sequence.**
5. **Click 'OK' (d) to finish the setup.**

2. **Because this USB monitor is recognized as a USB device, the DOS screen that appears for general monitors when a PC is booting up is not displayed.**

   - If you want to use your USB monitor as the Primary Monitor, connect a D-Sub cable (for analog signals) or a DVI cable (for digital signals) as well.

3. You cannot use the USB monitor for software using 3D hardware acceleration.
   - Real Player (Expansion mode is not supported.)
   - For most 3D games
   - Programs running on the base of Direct X
4. Supported movie programs
   - Power DVD
   - Win DVD(Version 5 onwards)
   - Windows Media Player (Version 10 or later is supported.)
   - VLC
5. This monitor does not support the MagicTune program.
   - The MagicRotation function may not function normally.
   - If the MagicTune program is installed on your PC, it may not be compatible with this monitor.
6. The USB monitor does not support the Auto Pivot function.
7. The USB monitor turns on automatically whenever the power cord is connected.
8. The USB monitor may not work normally with USB 1.0.
9. If you connect multiple USB monitors, a blank screen is displayed while your PC recognizes them.
   Screens are displayed on your USB monitors after your PC has recognized them.
10. If the graphics card of your PC does not support WDDM, the extended mode may not be available in Windows Vista.
    Example) Some versions of the Matrox Card

Using the Stand

Sliding Stand

A Stand Stopper

Tilt angle

You can adjust the tilt anlgle within a range of -3° forward to 22° backward for the most comfortable viewing angle

Attaching a Base

This monitor accepts a 75.0 mm x 75.0 mm VESA-compliant mounting interface pad.

A Monitor

B Mounting interface pad (Sold separately)

1. Turn off your monitor and unplug its power cord.
2. Lay the LCD monitor face-down on a flat surface with a cushion beneath it to protect the screen.
3. Remove four screws and then remove the stand from the LCD monitor.
4. Align the mounting interface pad with the holes in the rear cover mounting Pad and secure it with four screws that came with the arm-type base, wall mount hanger or other base.

- Do not use screws longer than the standard dimension, as they may damage the inside of the Monitor.
- For wall mounts that do not comply with VESA standard screw specifications, the length of the screws may differ depending on their specifications.
- Do not use screws that do not comply with the VESA standard screw specifications.
  Do not fasten the screws too tightly, as this may damage the product or cause the product to fall, leading to personal injury.
  Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.

- To mount the monitor on a wall, you should purchase the wall mounting kit that allows you to mount the monitor at least 10cm away from the wall surface.
- Contact the nearest Samsung Service Center for more information. Samsung Electronics will

not be responsible for damages caused by using a base other than those specified.

- **Please use Wall Mount according to the International standards.**

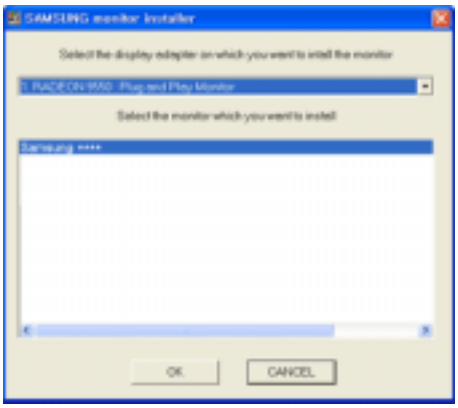
Installing the Monitor Driver (Automatic)

When prompted by the operating system for the monitor driver, insert the CD-ROM included with this monitor. Driver installation is slightly different from one operating system to another. Follow the directions appropriate for the operating system you have.

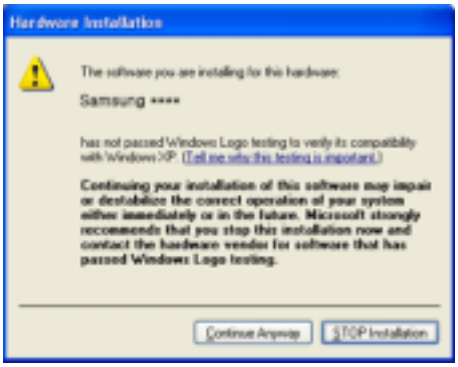
Prepare a blank disk and download the driver program file at the Internet web site shown below.

- Internet web site : http://www.samsung.com/ (Worldwide)
  http://www.samsung.com/monitor (U.S.A)
  http://www.sec.co.kr/monitor (Korea)
  http://www.samsungmonitor.com.cn/ (China)

1. Insert CD into the CD-ROM drive.
2. Click **"Windows"**
3. Choose your monitor model in the model list, then click the **"OK"** button.



4. If you can see following message window, then click the **"Continue Anyway"** button. Then click **"OK"** button. (Microsoft® Windows® XP Operating System)



This monitor driver is under certifying MS logo,and this installation don't damage your system.The certified driver will be posted on Samsung Monitor homepage http://www.samsung.com/

5. Monitor driver installation is completed.

Installing the Monitor Driver (Manual)

Windows Vista | Windows XP | Windows 2000 | Windows ME | Windows NT | Linux

When prompted by the operating system for the monitor driver, insert the CD-ROM included with this monitor. Driver installation is slightly different from one operating system to another. Follow the directions appropriate for the operating system you have.

Prepare a blank disk and download the driver program file at the Internet web site shown below.

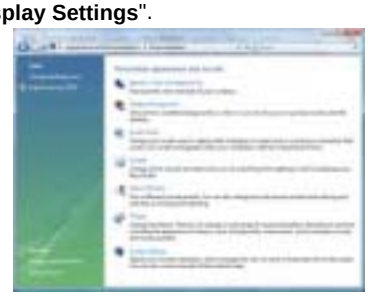
- Internet web site : http://www.samsung.com/ (Worldwide)
  http://www.samsung.com/monitor (U.S.A)
  http://www.sec.co.kr/monitor (Korea)
  http://www.samsungmonitor.com.cn/ (China)

Microsoft® Windows Vista™ Operating System

The USB monitor is not compatible with some versions of Windows Vista. Windows Vista 32bit is supported. Windows Vista 64bit is not currently supported. For related schedules, contact a service center. You can use your USB monitor by connecting it with a D-Sub or DVI cable instead of using a USB cable.

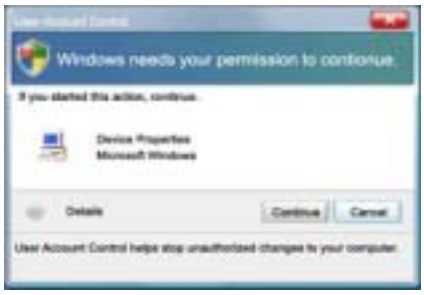
1. Insert your Manual CD into your CD-ROM drive.
2. Click (Start) and "**Control Panel**". Then, double-click on "**Appearance and Personalization**".

3. Click "**Personalization**" and then "**Display Settings**".



4. Click "**Advanced Settings...**".

5. Click "**Properties**" in the "**Monitor**" tab. If the "**Properties**" button is deactivated, it means the configuration for your monitor is completed. The monitor can be used as is.
   If the message "**Windows needs...**" is displayed, as shown in the figure below, click "**Continue**".

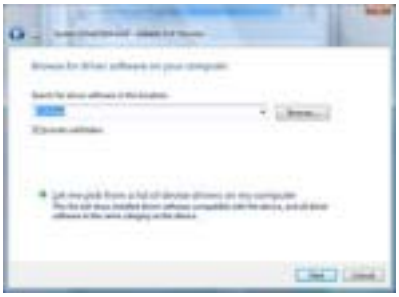


This monitor driver is under certifying MS logo, and this installation doesn't damage your system.
The certified driver will be posted on Samsung Monitor homepage

http://www.samsung.com/

6. Click "**Update Driver…**" in the "**Driver**" tab.

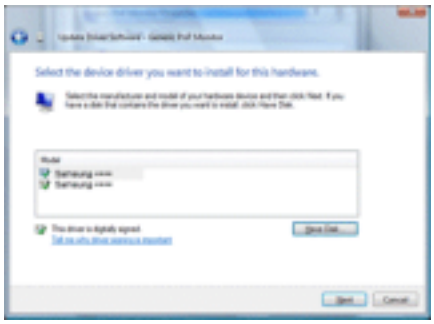
7. Check the "**Browse my computer for driver software**" checkbox and click "**Let me pick from a list of device drivers on my computer**".



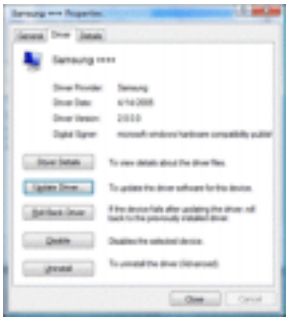
8. Click "**Have Disk…**" and select the folder (for example, D:\Drive) where the driver setup file is located, and click "**OK**".

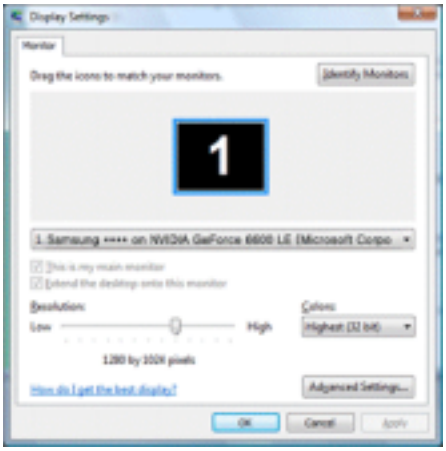
9.

Select the model that matches your monitor from the list of monitor models on the screen, and click "**Next**".



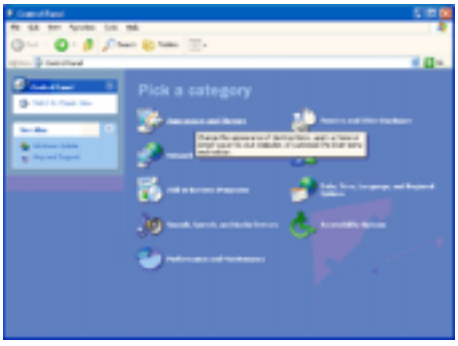
10. Click "**Close**"→ "**Close**" → "**OK**" → "**OK**" on the following screens displayed in sequence.



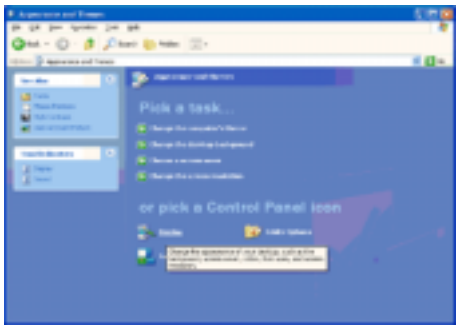
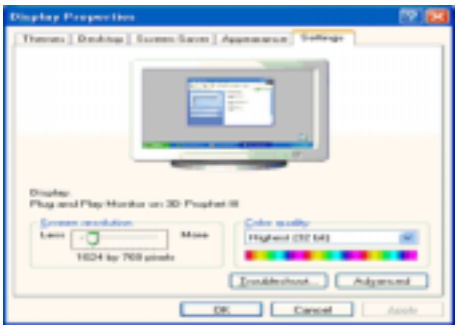


Microsoft® Windows® XP Operating System

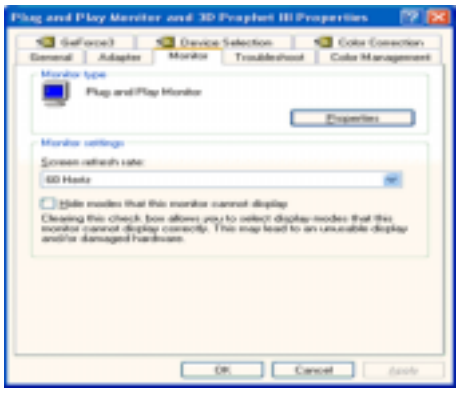
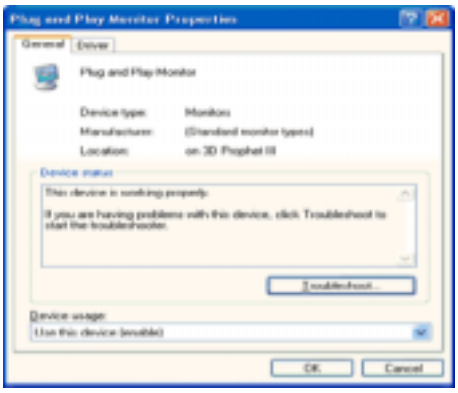
1. Insert CD into the CD-ROM driver.
2. Click "**Start**" —> "**Control Panel**" then click the "**Appearance and Themes**" Icon.



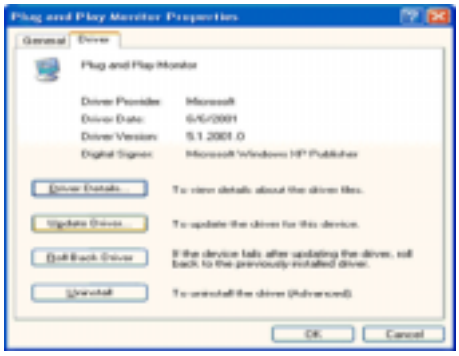
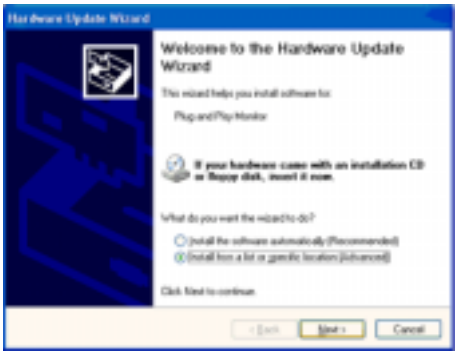
3. Click "**Display**" icon and choose the "**Settings**" tab then click "**Advanced..**".

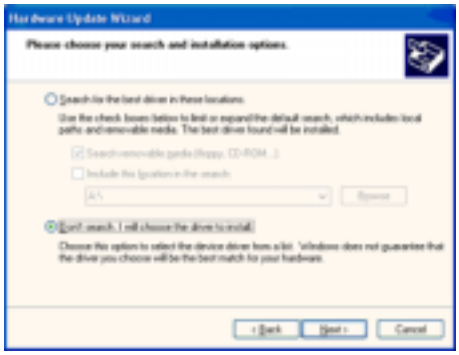
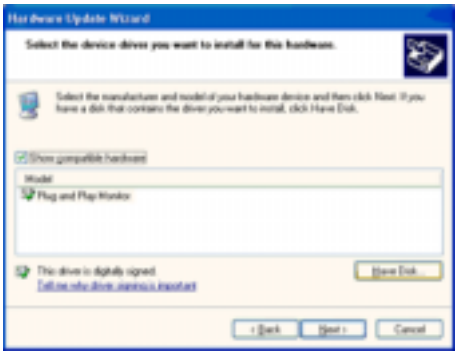
4. Click the "**Properties**" button on the "**Monitor**" tab and select "**Driver**" tab.

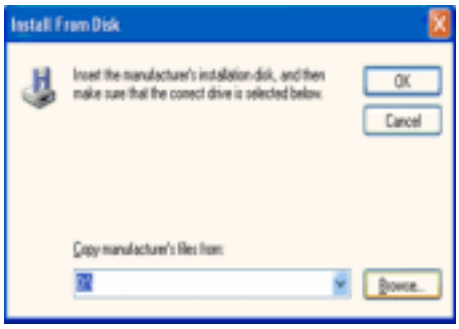
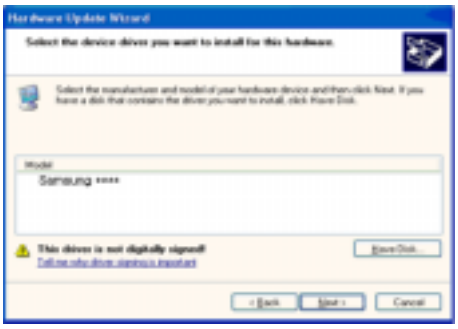
5. Click "**Update Driver..**" and select "**Install from a list or..**" then click "**Next**" button.

6. Select "**Don't search ,I will..**" then click "**Next**" and then click "**Have disk**".

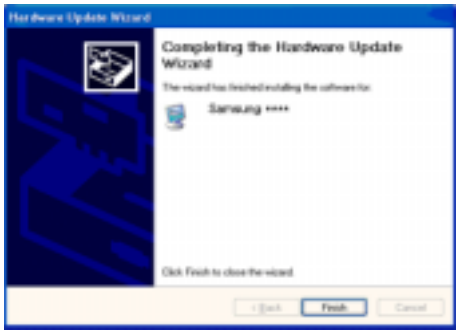
7. Click the "**Browse**" button then choose A:(D:\Driver) and choose your monitor model in the model list and click the "**Next**" button.

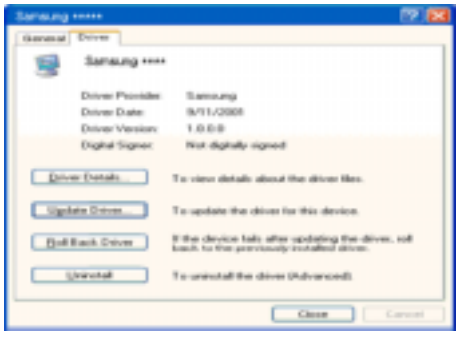

Install From Disk
Insert the manufacturer's installation disk, and then make sure that the correct drive is selected below.
OK
Cancel
Copy manufacturer's files from:
Browse...


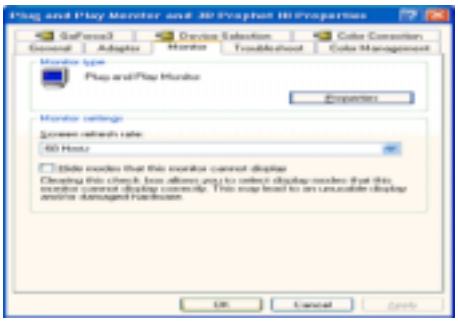
8. If you can see following "**Message**" window, then click the "**Continue Anyway**" button. Then click "**OK**" button.

This monitor driver is under certified MS logo,and this installation doesn't damage your system.The certified driver will be posted on Samsung Monitor homepage.
http://www.samsung.com/

9. Click the "**Close**" button then click "**OK**" button continually.







10. Monitor driver installation is completed.

Microsoft® Windows® 2000 Operating System

When you can see "Digital Signature Not Found" on your monitor, follow these steps.

1. Choose "**OK**" button on the "**Insert disk**" window.
2. Click the "**Browse**" button on the "**File Needed**" window.
3. Choose A:(D:\Driver) then click the "Open" button and then click "**OK**" button.

How to install

1. Click "**Start**" , "**Setting**" , "**Control Panel**".
2. Double click the "**Display**" Icon.

3. Choose the "**Settings**" tab and then click "**Advanced..**".
4. Choose "**Monitor**".
   Case1: If the "Properties" button is inactive, it means your monitor is properly configured. Please stop installation
   Case2: If the "Properties" button is active, click the "Properties" button then follow next steps continually.
5. Click "**Driver**" and then click on "**Update Driver..**" then click on the "Next" button.
6. Choose "**Display a list of the known drivers for this device so that I can choose a specific driver**" then click "**Next**" and then click "**Have disk**".
7. Click the "**Browse**" button then choose A:(D:\Driver).
8. Click the "**Open**" button, then click "**OK**" button.
9. Choose your monitor model and click the "**Next**" button then click "**Next**" button.
10. Click the "**Finish**" button then the "**Close**" button.

If you can see the "**Digital Signature Not Found**" window then click the "**Yes**"button. And click the "**Finish**" button then the "**Close**" button.

Microsoft® Windows® Millennium Operating System

1. Click "**Start**" , "**Setting**" , "**Control Panel**".
2. Double click "**Display**" icon.
3. Select the "**Settings**" tab and click "**Advanced Properties**" button.
4. Select the "**Monitor**" tab.
5. Click the "**Change**" button in the "**Monitor Type**" area.
6. Choose "**Specify the location of the driver**".
7. Choose "**Display a list of all the driver in a specific location..**" then click "**Next**" button.
8. Click the "**Have Disk**" button
9. Specify A:\(D:\driver) then click "**OK**" button.
10. Select "**Show all devices**" and choose the monitor that corresponds to the one you connected to your computer and click "**OK**".
11. Continue choosing "**Close**" button and "**OK**" button until you close the Display Properties dialogue box.

Microsoft® Windows® NT Operating System

1. Click **Start**, **Settings**, **Control Panel**, and then double-click **Display** icon.
2. In Display Registration Information window, click Settings Tab and then click **All Display Modes**.
3. Select a mode that you wish to use (Resolution, Number of colors and Vertical frequency) and then click **OK**.
4. Click **Apply** button if you see the screen working normally after clicking **Test**. If the screen is not normal, change to a different mode (lower mode of resolution, colors or frequency).

If there is no Mode at **All Display Modes**, select the level of resolution and vertical frequency by referring to the Preset Timing Modes in the user guide.

Linux Operating System

To execute X-Window, you need to make the X86Config file, which is a type of system setting file.

1. Press Enter at the first and the second screen after executing the X86Config file.
2. The third screen is for **setting your mouse**.
3. Set a mouse for your computer.
4. The next screen is for **selecting a keyboard**.
5. Set a Keyboard for your computer.
6. The next screen is for **setting your monitor**.
7. First of all, set a **horizontal frequency** for your monitor. (You can enter the frequency directly.)
8. Set a **vertical frequency** for your monitor. (You can enter the frequency directly.)
9. Enter the **model name of your monitor**. This information will not affect the actual execution of X-Window.
10. You have **finished** setting up your monitor.
    Execute X-Window after setting other requested hardware.

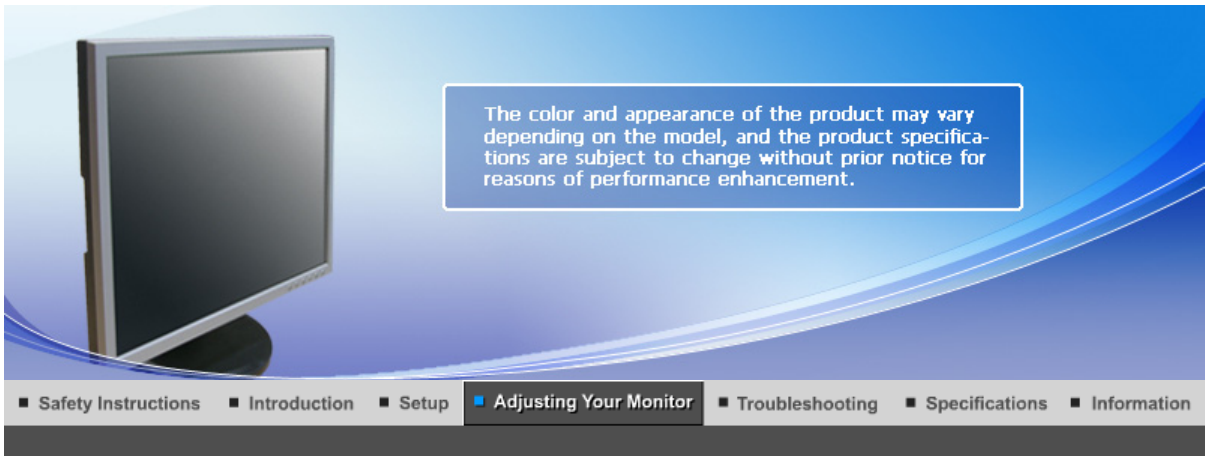
Natural Color

Natural Color

One of the recent problems in using a computer is that the color of the images printed out by a printer or other images scanned by a scanner or a digital camera are not the same as those shown on the monitor.
The Natural Color S/W is the very solution for this problem. It is a color administration system developed by Samsung Electronics in association with Korea Electronics & Telecommunications Research Institute (ETRI).
This is only available for Samsung monitors and ensures that the color of the images on the monitor are the same as the printed or scanned images.
For more information, refer to Help (F1) in the software program. **Installing the Natural Color Software**
Insert the CD included with the Samsung monitor into the CD-ROM Drive. The initial Natural Color screen will appear. Click on Natural Color in the startup window to install the Natural Color software.

To install the program manually, insert the CD included with the Samsung monitor into the CD-ROM Drive, click the Windows [Start] button, select [Run...].
Enter D:\color\NCProsetup.exe and then press the <Enter> key.
(If the drive where the CD is inserted is not D:\, enter the applicable drive.)

Uninstalling the Natural Color Software Program
Select **"Setting/Control Panel"** on the **"Start"** menu and then double-click **"Add/Delete a program"**.
Select Natural Color from the list and then click the **"Add/Delete"** button.


The color and appearance of the product may vary depending on the model, and the product specifications are subject to change without prior notice for reasons of performance enhancement.

1. [MENU] Opens the on-screen menu and exits from the menu or closes the adjustment menu.
2. [▼/▲] These buttons allow you to adjust items in the menu.
3. [⏎] Press this button to activate a highlighted menu item.
4. [**AUTO**] Press to self-adjust the incoming PC signal automatically.
   The values of fine,coarse and position are adjusted automatically.

AUTO

Menu	Description
AUTO	When the **'AUTO'** button is pressed, the Auto Adjustment screen appears as shown in the animated screen on the center. Auto adjustment allows the monitor to self-adjust to the incoming video signal. The values of fine, coarse and position are adjusted automatically. (Available in analog mode only) To make the automatic adjustment function sharper, execute the 'AUTO' function while the AUTO PATTERN is on. - If Auto Adjustment does not work properly, press AUTO button again to adjust picture with more accuracy. - If you change resolution in the control panel, Auto Adjustment function will be executed automatically.

OSD Lock & Unlock

When pressing the AUTO button after locking the OSD

When pressing the MENU button after locking the OSD

Menu	Description
OSD Locked & Unlock	This is the function that locks the OSD in order to keep the current states of settings or prevent others from adjusting the current settings. **Lock** : Hold down the menu button for more than five seconds to activate the OSD adjustment lock function. **Unlock** : Hold down the menu button for more than five seconds to deactivate the OSD adjustment lock function. Though the OSD adjustment lock function is activated, you can still adjust the brightness and contrast, and adjust MagicBright ( ) using the Direct button.

MagicBright™

Menu	Description
MagicBright™	Push the MagicBright™ button to circle through available preconfigured modes. - Seven different modes: Custom, Text, Internet, Game, Sport, Movie and Dynamic Contrast.

Brightness

Menu	Description
Brightness	When OSD is not on the screen, push the button to adjust brightness.

Picture	Brightness	Contrast			
Color	MagicColor	Color Tone	Color Control	Gamma	
Image	Coarse	Fine	Sharpness	H-Position	V-Position
OSD	Language	H-Position	V-Position	Transparency	Display Time
Setup	Auto Source	Image Reset	Color Reset		
Information					

Picture : Not available in MagicBright™ mode of Dynamic Contrast.

Menu	Description	Play/Stop
Brightness	You can use the on-screen menus to change the brightness according to personal preference. [MENU → ↵ → ↵ → ▲, ▼ → MENU]	
Contrast	You can use the on-screen menus to change the contrast according to personal preference. (Not available in MagicColor mode of Full and Intelligent.) [MENU → ↵ → ▲, ▼ → ↵ → ▲, ▼ → MENU]	

UP

Color : Not available in MagicBright™ mode of Dynamic Contrast.

Menu	Description	Play/Stop
MagicColor	MagicColor is a new technology that Samsung has exclusively developed to improve digital image and to display natural color more clearly without disturbing image quality. **1) Off** - Returns to the original mode. **2) Demo** - The screen before applying MagicColor appears on the right and the screen after applying MagicColor appears on the left. **3) Full** - Displays not only vivid natural color but also more realistic natural skin color with clearness. **4) Intelligent** - Displays vivid natural color with clearness. [MENU → ▲, ▼ → ↵ →↵ → ▲, ▼ → ↵ → MENU]	
Color Tone	The tone of the color can be changed and one of four modes can be selected - Cool, Normal, Warm and Custom. **Cool** - Makes whites bluish. **Normal** - Keeps whites white. **Warm** - Makes whites reddish. **Custom** - Select this mode when you want to adjust the image according to your preferences. (Not available in MagicColor mode of Full and Intelligent.) [MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → MENU]	
Color Control	Adjusts individual R,G,B color balance. (Not available in MagicColor mode of Full and Intelligent.) [MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → MENU]	
Gamma	Gamma correction changes the luminance of the colors with intermediate luminance. • Mode 1 • Mode 2 • Mode 3 [MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → MENU]	

UP

Image

Menu	Description	Play/Stop
Coarse	Removes noise such as vertical stripes. Coarse adjustment may move the screen image area. You may relocate it to the center using the horizontal control menu. (Available in analog mode only) [MENU → ▲, ▼ → ↵ → ↵ → ▲, ▼ → MENU]	
Fine	Removes noise such as horizontal stripes. If the noise persists even after fine tuning, repeat it after adjusting the frequency (clock speed). (Available in analog mode only) [MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → MENU]	
Sharpness	Changes the clearance of image. (Not available in MagicColor mode of Full and Intelligent.) [MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → MENU]	
H-Position	Changes the horizontal position of the monitor's entire display. (Available in analog mode only) [MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → MENU]	
V-Position	Changes the vertical position of the monitor's entire display. (Available in analog mode only) [MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → MENU]	

UP

OSD

Menu	Description	Play/Stop
Language	You can choose one of 9 languages. • English, Deutsch, Español, Français, Italiano, Svenska, Русский , Português , Türkçe **Note**:The language chosen affects only the language of the OSD. It has no effect on any software running on the computer. [MENU → ▲, ▼ → ↵ → ↵ → ▲, ▼ → MENU]	
H-Position	You can change the horizontal position where the OSD menu appears on your monitor. [MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → MENU]	
V-Position	You can change the vertical position where the OSD menu appears on your monitor. [MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → MENU]	
Transparency	Change the transparency of the background of the OSD. [MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → MENU]	
Display Time	The menu will be automatically turned off if no adjustments are made for a certain time period. You can set the amount of time the menu will wait before it is turned off. 5 sec, 10 sec, 20 sec, 200 sec [MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → MENU]	

UP

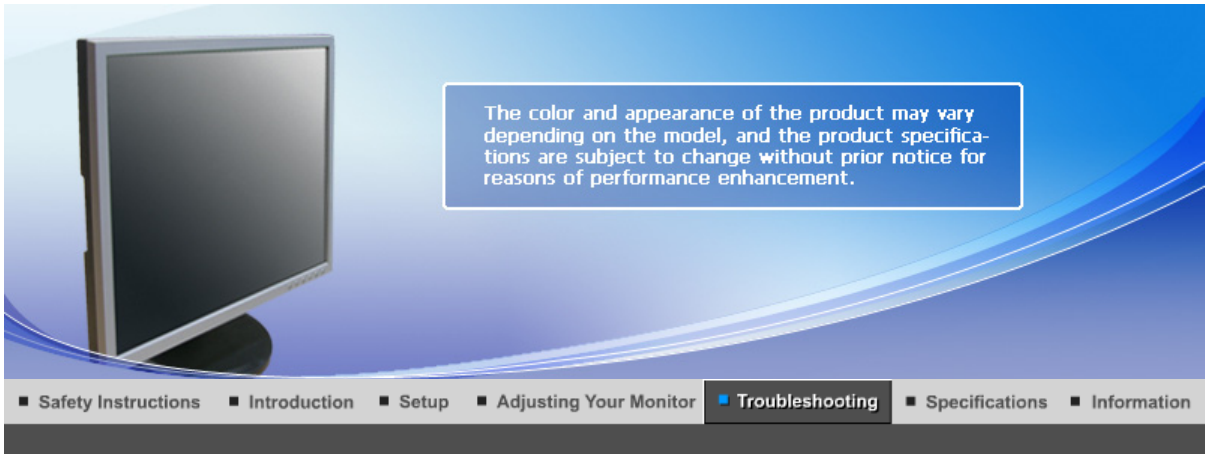
Setup

Menu	Description	Play/Stop
Auto Source	Select **Auto Source** for the monitor to automatically select the signal source. [MENU → ▲, ▼ → ↵ → ↵ → ▲, ▼ → MENU]	
Image Reset	Image parameters are replaced with the factory default values. [MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → MENU]	
Color Reset	Color parameters are replaced with the factory default values. [MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → MENU]	

UP

Information

Menu	Description
Information	Shows a video source, display mode on the OSD screen. [MENU → ▲, ▼ → MENU]


The color and appearance of the product may vary depending on the model, and the product specifications are subject to change without prior notice for reasons of performance enhancement.

Check List

Before calling for assistance, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please call the phone number on the Information section or contact your dealer.

Symptom	Check List	Solutions
No images on the screen. I cannot turn on the monitor.	Is the power cord connected properly?	Check the power cord connection and supply.
	Can you see **"Check Signal Cable"** on the screen?	**(Connected using the D-sub cable)** Check the signal cable connection. **(Connected using the DVI cable)** If you still see an (error) message on the screen when the monitor is connected properly, check to see if the monitor status is set to analog. Press button to have the monitor double-check the input signal source.
	If the power is on, reboot the computer to see the initial screen(the login screen), which can be seen.	If the initial screen (the login screen) appears, boot the computer in the applicable mode (the safe mode for Windows ME/XP/2000) and then change the frequency of the video card. (Refer to the Preset Timing Modes) Note: If the initial screen (the login screen) does not appear, contact the Service Center or your dealer.
	Can you see **"Not Optimum Mode","Recommended mode 1280 x 1024 60 Hz"** on the screen?	You can see this message when the signal from the video card exceeds the maximum resolution and frequency that the monitor can handle properly. Adjust the maximum resolution and frequency that the monitor can handle properly. If the display exceeds SXGA or 75 Hz, a **"Not Optimum Mode","Recommended mode 1280 x 1024 60 Hz"** message is displayed. If the display exceeds 85 Hz, the display will work properly but the **"Not Optimum Mode","Recommended Mode 1280 x 1024 60 Hz"** message appears for one minute and then disappears. Please change to the recommended mode during this one-minute period. (The message is displayed again if the system is rebooted.)
	There is no image on the	The monitor is in PowerSaver mode.

	screen. Is the power indicator on the monitor blinking at 1 second intervals?	press a key on the keyboard to activate the monitor and restore the image on the screen. If there is still no image, press the '⏎' button. Then press any key on the keyboard again to activate the monitor and restore the image on the screen.
I cannot see the On Screen Display.	Have you locked the On Screen Display (OSD) Menu to prevent changes?	Unlock the OSD by pressing the [MENU] button for at least 5 seconds.
The screen shows strange colors or just black and white.	Is the screen displaying only one color as if looking at the screen through a cellophane paper?	Check the signal cable connection.Make sure the video card is fully inserted in its slot.
	Have the screen colors become strange after running a program or due to a crash between applications?	Reboot the computer.
	Has the video card been set properly?	Set the video card by referring to the video card manual.
The screen suddenly has become unbalanced.	Have you changed the video card or the driver?	Adjust screen image position and size using the OSD.
	Have you adjusted the resolution or frequency to the monitor?	Adjust the resolution and frequency at the video card. (Refer to the Preset Timing Modes).
	The screen can be unbalanced due to the cycle of the video card signals. Readjust Position by referring to the OSD.	
The screen is out of focus or OSD cannot be adjusted.	Have you adjusted the resolution or frequency on the monitor?	Adjust the resolution and frequency of the video card. (Refer to the Preset Timing Modes).
There are only 16 colors shown on the screen.	Have the Windows colors been set properly?	Windows ME/2000/XP: Set the colors properly at the **Control Panel** → **Display** → **Settings**.
The screen colors have changed after changing the video card.	Has the video card been set properly?	Set the video card by referring to the video card manual.
There is a message that reads "Unrecognized monitor, Plug & Play (VESA DDC) monitor found".	Have you installed the monitor driver?	Install the monitor driver according to the Driver Installation Instructions.
	See the video card manual to see if the Plug & Play (VESA DDC) function can be supported.	Install the monitor driver according to the Driver Installation Instructions.

USB Monitor Check List

Symptom	Check List	Solutions
There is no image on the screen. I cannot turn on the monitor.	If you quickly and repeatedly turn your USB monitor off and on, it may not work normally.	Your USB monitor is recognized as a general USB device on your PC. Therefore, please refer to the troubleshooting information for USB devices by visiting Microsoft's customer support site. (www.microsoft.com - Support) 1. Right-click the 'My Computer ' and click on 'Properties'. 2. The Device Manager is displayed. 3. From the "Action" menu, click "Scan for hardware changes". Reboot your PC.
The screen of the USB monitor freezes.	Check the 'Hardware acceleration' setting for your USB monitor in the 'Display Properties' window.	Set the 'Hardware acceleration' value to 'Full'. For more information on how to configure the settings, click here. 1. Right-click the 'Windows Desktop' and click on 'Properties'. 2. The "Display Properties" window appears.Select the

		“Settings” tab and click on “Advanced”. 3. If the “Properties” window for your monitor is displayed, select the “Troubleshoot” tab.Move the “Hardware acceleration” slide to “Full
My USB monitor is connected but the screen is blank.	Does the Auto Installation program run when your USB monitor is connected?	Check your user account in the Control Panel. 1. Click Start – Control Panel – User Accounts - Change an account – Admin: Computer administrator – Change my account type. In the displayed window, Computer administrator (Power User or higher) must be selected. – For Windows XP computers. 2. Set your account type as directed above. Then turn the Power button at the front of your USB monitor off and on or reconnect the USB cable connected to the monitor. If the problem persists, install the “USB Monitor Installation Driver” from the provided CD. For more information, refer to the Manual Installation section. 3. When the installation is finished, reboot your PC.
My computer is on and the LED is blinking. However, only a blank screen is displayed on the monitor.	Check whether the USB cable is connected correctly.	Connect the USB cable again.
	Check whether your computer is in hibernation mode (The monitor turns off).	Move your mouse or press any key to display the screen again.

Check the following items if there is trouble with the monitor.

1. Check if the power cord and the video cables are properly connected to the computer.
2. Check if the computer beeps more than 3 times when booting.
   (If it does, request an a service for the main board of the computer.)
3. If you installed a new video card or if you assembled the PC, check if the installed the adapter(video) driver and the monitor driver.
4. Check if the scanning ratio of the video screen is set at 56 Hz ~ 75 Hz.
   (Do not exceed 75 Hz when using the maximum resolution.)
5. If you have problems in installing the adapter (video) driver, boot the computer in Safe Mode, remove the Display Adapter at the "**Control Panel→System→Device Administrator**" and then reboot the computer to reinstall the adapter (video) driver.

If problems repeatedly occur, contact an authorized service center.

Q & A

Question	Answer
How can I change the frequency?	The frequency can be changed by reconfiguring the video card. Note that video card support can vary, depending on the version of the driver used. (Refer to the computer or the video card manual for details.)
How can I adjust the resolution?	Windows ME/XP/2000 : Set the resolution at the Control Panel→Display→Settings. * Contact the video card manufacturer for details.
How can I set the Power Saving function?	Windows ME/XP/2000 : Set the function at BIOS-SETUP of the computer or the screen saver. (Refer to Windows/Computer Manual).
How can I clean the outer case/LCD Panel?	Disconnect the power cord and then clean the monitor with a soft cloth, using either a cleaning solution or plain water. Do not leave any detergent or scratches on the case. Do not let any water enter the monitor.
How can I remove the “USB Monitor Installation Program” completely?	1.Click ‘Add/Remove Programs’ in the ‘Control Panel’. A list of ‘currently installed programs’ is displayed.

	2. Select ‘Samsung UbiSync Monitor’ from the list and click ‘Remove’.
There is no response when I right-click “Samsung UbiSunc (P:) (USB Monitor)” in the “My Computer” window and click “Eject” in the displayed menu.	Though your USB monitor is recognized as a drive by your PC, it has been designed so that the context menu usually displayed when right-clicking on the “My Computer” window does not work.
The screen size of the USB monitor is larger than the actual monitor size.	If the primary monitor has a high resolution, screens are expanded beyond the recommended resolution in Clone mode (USB monitor). (Recommended resolution: 1280x1024)
The screen size of the USB monitor is smaller than the actual monitor size. The screen is centered on the monitor.	If the primary monitor has a high resolution, screens are smaller than the recommended resolution in Clone mode (USB monitor). (Recommended resolution: 1280x1024)
I disconnected or turned off my USB monitor but my PC still displays the old monitor information in the Display Properties window.	The deactivated USB monitors are such that the power to them is turned off or their USB cables are disconnected. To remove this information, you have to remove the 'Samsung Ubisync Monitor' program from ‘Add/Remove Programs’ in the ‘Control Panel’. If you remove the program you cannot use all the connected USB monitors. If you want to use the USB monitor again, you have to setup the installation program again.
Icons and photos are broken or jagged in Clone mode (USB monitor).	This occurs because Windows does not send the screen updating information to Clone mode if Extended mode is active on a single PC. We recommend using the monitor in Extend mode.
How I can clone or extend screen mode?	Open the “Display Properties” window and select the “Settings” tab, Configure the screen mode in the “Settings” tab. - For more information on how to configure the settings, click here.

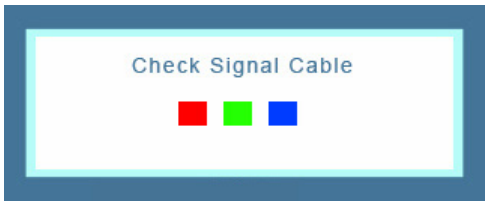
Self-Test Feature Check

Self-Test Feature Check | Warning Messages | Environment | Useful Tips

Your monitor provides a self test feature that allows you to check whether your monitor is functioning properly.

Self-Test Feature Check

1. Turn off both your computer and the monitor.
2. Unplug the video cable from the back of the computer.
3. Turn on the monitor.
   If the monitor is functioning properly, you will see a box in the illustration below.



   This box appears during normal operation if the video cable becomes disconnected or damaged.

4. Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.
   If your monitor screen remains blank after using the previous procedure, check your video controller and computer system; your monitor is functioning properly.

Warning Messages

If there is something wrong with the input signal, a message appears on the screen or the screen goes blank although the power indicator LED is still on. The message may indicate that the monitor is out of scan range or that you need to check the signal cable.

Environment

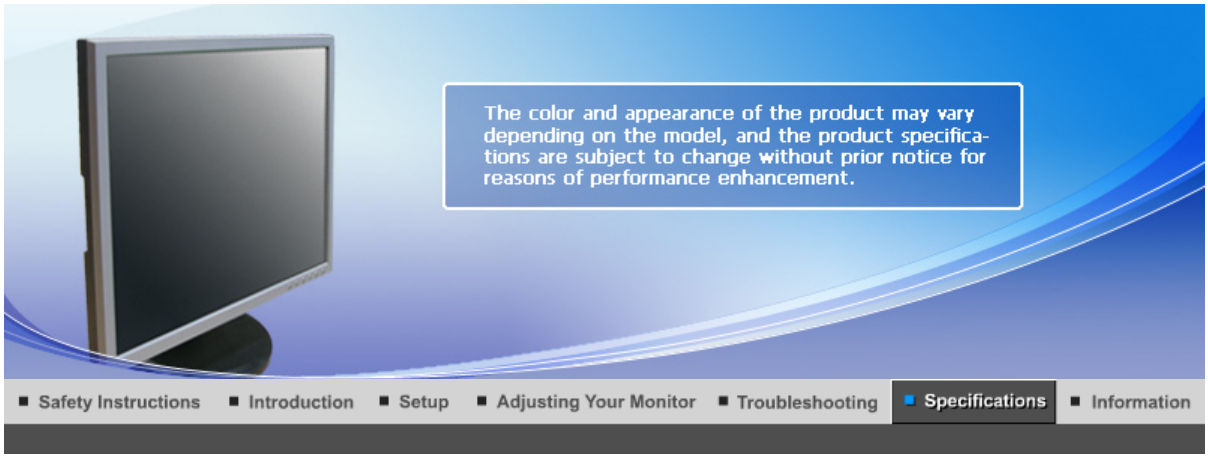
The location and the position of the monitor may influence the quality and other features of the monitor.

1. If there are any sub woofer speakers near the monitor, unplug and relocate the woofer to another room.
2. Remove all electronic devices such as radios, fans, clocks and telephones that are within 3 feet (one meter) of the monitor.

Useful Tips

- A monitor recreates visual signals received from the computer. Therefore, if there is trouble with the computer or the video card, this can cause the monitor to become blank, have poor coloring, noise, Video mode not supported, etc. In this case, first check the source of the problem, and then contact the Service Center or your dealer.

- **Judging the monitor's working condition**
  If there is no image on the screen or a **"Not Optimum Mode","Recommended Mode 1280 x 1024 60 Hz"** message comes up, disconnect the cable from the computer while the monitor is still powered on.
  - If there is a message coming up on the screen or if the screen goes white, this means the monitor is in working condition.
  - In this case, check the computer for trouble.


The color and appearance of the product may vary depending on the model, and the product specifications are subject to change without prior notice for reasons of performance enhancement.

General

General

Model Name	SyncMaster 940UX

LCD Panel

Size	19 " Diagonal (48 cm)
Display area	376.32 mm (H) x 301.056 mm (V)
Pixel Pitch	0.294 mm (H) x 0.294 mm (V)

Synchronization

Horizontal	30~81 kHz
Vertical	56~75 Hz

Display Color

16.7M

Resolution

Optimum resolution	1280 x 1024@60 Hz
Maximum resolution	1280 x 1024@75 Hz

Input Signal, Terminated

RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB, USB
0.7 Vp-p ± 5 %
TTL level (V high ≥ 2.0V, V low ≤ 0.8V)

Maximum Pixel Clock

140MHz (Analog,Digital,USB)

Power Supply

AC 100-240 V (± 10 %), 60/50Hz ± 3Hz

Signal Cable

15pin-to-15pin D-sub cable, Detachable, DVI-D to DVI-D connector, Detachable,
USB cable , Detachable

Signal Connectors

15pin 3-row D-sub connector, 24pin 3-row DVI-D connector, USB UP Stream

Dimensions (WxHxD) / Weight (Without Stand)

407.6 X 335.0 X 65.4 mm / 16.04 x 13.18 x 2.57 inch

Dimensions (WxHxD) / Weight (With Stand)

407.6 X 408.0 X 200.0 mm / 16.04 x 16.06 x 7.87 inch / 5.2 kg / 11.46 lbs

VESA Mounting Interface

75.0 mm x 75.0 mm

Environmental considerations

Operating	Temperature: 50°F ~ 104°F (10°C ~ 40°C) Humidity: 10 % ~ 80 %, non-condensing
Storage	Temperature: -4°F ~ 113°F (-20°C ~ 45°C) Humidity: 5 % ~ 95 %, non-condensing

Plug and Play Capability

This monitor can be installed on any Plug & Play compatible system. Interaction of the monitor and computer systems will provide the best operating conditions and monitor settings. In most cases, monitor installation will proceed automatically, unless the user wishes to select alternate settings.

Dot Acceptable

TFT LCD panel manufactured by using advanced semiconductor technology with precision of 1ppm (one millionth) above is used for this product. But the pixels of RED, GREEN, BLUE and WHITE color seem to be bright sometimes or some of black pixels could be seen. This is not from bad quality and you can use it without uneasiness.

- For example, the number of TFT LCD sub pixels that is contained in this product are 3,932,160.

Note: Design and specifications are subject to change without prior notice.

Class B Equipment (Information Communication equipment for residential use)

This product complies with the Electromagnetic Compatibility Directives for residential use and can be used in all areas including common residential areas.

(Class B equipment emits less electromagnetic waves than Class A equipment.)

PowerSaver

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor into a low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPM compliant video card installed in your computer. Use a software utility installed on your computer to set up this feature.

State	Normal Operation	Power saving mode	Power off (Power button)
Power Indicator	Blue	Blue Blinking	Off
Power Consumption	less than 42.0 Watts	Analog/Digital less than 2 Watts USB less than 5 Watts	less than 0.5 watts(120Vac)

Preset Timing Modes

If the signal transferred from the computer is the same as the following Preset Timing Modes, the screen will be adjusted automatically. However, if the signal differs, the screen may go blank while the power LED is on. Refer to the video card manual and adjust the screen as follows.

Table 1. Preset Timing Modes

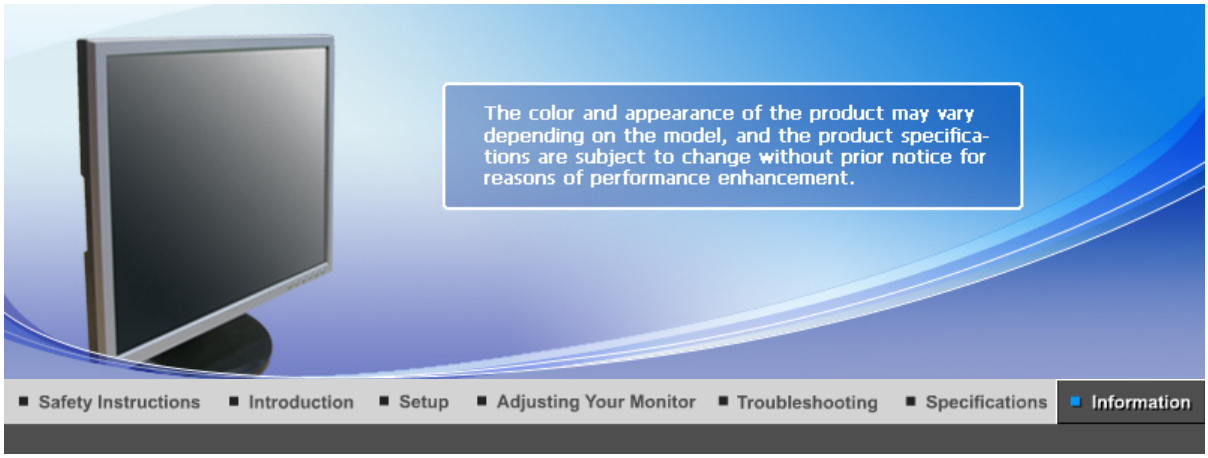
Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
MAC, 1152 x 870	68.681	75.062	100.000	-/-
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 640 x 480	31.469	59.940	25.175	-/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
VESA,1280 x 1024	79.976	75.025	135.000	+/+
VESA,1280 x 1024	63.981	60.020	108.000	+/+

Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle and the inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz

Vertical Frequency

Like a fluorescent lamp, the screen has to repeat the same image many times per second to display an image to the user. The frequency of this repetition is called Vertical Frequency or Refresh Rate. Unit: Hz


The color and appearance of the product may vary depending on the model, and the product specifications are subject to change without prior notice for reasons of performance enhancement.
Safety Instructions
Introduction
Setup
Adjusting Your Monitor
Troubleshooting
Specifications
Information

Contact SAMSUNG WORLDWIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

North America		
U.S.A	1-800-SAMSUNG(726-7864)	http://www.samsung.com/us
CANADA	1-800-SAMSUNG(726-7864)	http://www.samsung.com/ca
MEXICO	01-800-SAMSUNG(726-7864)	http://www.samsung.com/mx

Latin America		
ARGENTINE	0800-333-3733	http://www.samsung.com/ar
BRAZIL	0800-124-421, 4004-0000	http://www.samsung.com/br
CHILE	800-SAMSUNG(726-7864)	http://www.samsung.com/cl
COLOMBIA	01-8000112112	http://www.samsung.com.co
COSTA RICA	0-800-507-7267	http://www.samsung.com/latin
ECUADOR	1-800-10-7267	http://www.samsung.com/latin
EL SALVADOR	800-6225	http://www.samsung.com/latin
GUATEMALA	1-800-299-0013	http://www.samsung.com/latin
JAMAICA	1-800-234-7267	http://www.samsung.com/latin
PANAMA	800-7267	http://www.samsung.com/latin
PUERTO RICO	1-800-682-3180	http://www.samsung.com/latin
REP. DOMINICA	1-800-751-2676	http://www.samsung.com/latin
TRINIDAD & TOBAGO	1-800-SAMSUNG(726-7864)	http://www.samsung.com/latin
VENEZUELA	0-800-100-5303	http://www.samsung.com/latin

Europe		
AUSTRIA	0800-SAMSUNG(726-7864)	http://www.samsung.com/at

BELGIUM	0032 (0)2 201 24 18	http://www.samsung.com/be
CZECH REPUBLIC	844 000 844	http://www.samsung.com/cz
	Distributor pro Českou republiku: Samsung Zrt., česka organizační složka Vyskočilova 4, 14000 Praha 4	
DENMARK	70 70 19 70	http://www.samsung.com/dk
FINLAND	030-6227 515	http://www.samsung.com/fi
FRANCE	3260 SAMSUNG(726-7864) 08 25 08 65 65(€ 0,15/Min)	http://www.samsung.com/fr
GERMANY	01805-SAMSUNG(726-7864) (€ 0,14/Min)	http://www.samsung.de
HUNGARY	06-80-SAMSUNG(726-7864)	http://www.samsung.com/hu
ITALIA	800 SAMSUNG (726-7864)	http://www.samsung.com/it
LUXEMBURG	0035 (0)2 261 03 710	http://www.samsung.com/be
NETHERLANDS	0900 SAMSUNG(726-7864) (€ 0,10/Min)	http://www.samsung.com/nl
NORWAY	815-56 480	http://www.samsung.com/no
POLAND	0 801 801 881, 022-607-93-33	http://www.samsung.com/pl
PORTUGAL	80 8 200 128	http://www.samsung.com/pt
REPUBLIC OF IRELAND	0818 717 100	http://www.samsung.com/ie
SLOVAKIA	0800-SAMSUNG(726-7864)	http://www.samsung.com/sk
SPAIN	902 10 11 30	http://www.samsung.com/es
SWEDEN	0771-400 200	http://www.samsung.com/se
SWITZERLAND	0800-SAMSUNG(726-7864)	http://www.samsung.com/ch
U.K	0870-SAMSUNG(726-7864)	http://www.samsung.com/uk

CIS		
ESTONIA	800-7267	http://www.samsung.ee
LATVIA	800-7267	http://www.samsung.com/lv
LITHUANIA	8-800-77777	http://www.samsung.lt
KAZAKHSTAN	8-10-800-500-55-500	http://www.samsung.kz
KYRGYZSTAN	00-800-500-55-500	
RUSSIA	8-800-555-55-55	http://www.samsung.ru
UKRAINE	8-800-502-0000	http://www.samsung.ua
UZBEKISTAN	8-800-120-0-400	http://www.samsung.uz

Asia Pacific		
AUSTRALIA	1300 362 603	http://www.samsung.com/au
CHINA	800-810-5858, 010- 6475 1880	http://www.samsung.com.cn
HONG KONG	3698-4698	http://www.samsung.com/hk
INDIA	3030 8282, 1800 110011	http://www.samsung.com/in
INDONESIA	0800-112-8888	http://www.samsung.com/id
JAPAN	0120-327-527	http://www.samsung.com/jp
MALAYSIA	1800-88-9999	http://www.samsung.com/my
NEW ZEALAND	0800SAMSUNG(726-7864)	http://www.samsung.com/nz

PHILIPPINES	1800-10-SAMSUNG(726-7864)	http://www.samsung.com/ph
SINGAPORE	1800-SAMSUNG(726-7864)	http://www.samsung.com/sg
THAILAND	1800-29-3232, 02-689-3232	http://www.samsung.com/th
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Terms

Dot Pitch
The image on a monitor is composed of red, green and blue dots. The closer the dots, the higher the resolution. The distance between two dots of the same color is called the 'Dot Pitch'. Unit: mm

Vertical Frequency
The screen must be redrawn several times per second in order to create and display an image for the user. The frequency of this repetition per second is called Vertical Frequency or Refresh Rate. Unit: Hz

Example : If the same light repeats itself 60 times per second, this is regarded as 60 Hz.

Horizontal Frequency
The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle. The inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz

Interlace and Non-Interlace Methods
Showing the horizontal lines of the screen from the top to the bottom in order is called the Non-Interlace method while showing odd lines and then even lines in turn is called the Interlace method. The Non-Interlace method is used for the majority of monitors to ensure a clear image. The Interlace method is the same as that used in TVs.

Plug & Play
This is a function that provides the best quality screen for the user by allowing the computer and the monitor to exchange information automatically. This monitor follows the international standard VESA DDC for the Plug & Play function.

Resolution
The number of horizontal and vertical dots used to compose the screen image is called 'resolution'. This number shows the accuracy of the display. High resolution is good for performing multiple tasks as more image information can be shown on the screen.

Example :If the resolution is 1280 x 1024 , this means the screen is composed of 1280 horizontal dots (horizontal resolution) and 1024 vertical lines (vertical resolution).

For Better Display

1. Adjust computer resolution and screen injection rate (refresh rate) oncomputer as described below to enjoy the best quality of picture. You can have an uneven quality of picture in the screen if the best quality of picture is not provided in TFT-LCD.
    - Resolution: 1280 x 1024

- Vertical frequency (refresh rate): 60 Hz

2. TFT LCD panel manufactured by using advanced semiconductor technology with precision of 1ppm (one millionth) above is used for this product. But the pixels of RED, GREEN, BLUE and WHITE color seem to be bright sometimes or some of black pixels could be seen.
   This is not from bad quality and you can use it without uneasiness.
   - For example, the number of TFT LCD sub pixels that is contained in this product are 3,932,160.
3. When you clean the monitor and the panel outside, please apply the recommended small amount of cleaner by using soft and dry cloth and polish it. Let LCD area not to be forced but to be scrubbed out softly.
   If excessive force is applied, you can have a stain on it.
4. If you are not satisfied with the quality of the picture, you can get better quality of the picture by executing "auto adjustment function" in display screen that is appeared as window termination button is pressed.
   If there's still noise after automatic adjustment, use FINE/COARSE adjustment function.
5. If you view a fixed screen for an extended period of time, residual image or blurriness may appear. Change the mode to energy save or set a screensaver to move the picture when you need to be away from the monitor for an extended period of time.

Authority

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PRODUCT INFORMATION (Image Retention Free)

LCD Monitors and TVs may have image retention when switching from one image to another especially after displaying a stationary image for a long time.
This guide is to demonstrate correct usage of LCD products in order to protect them from Image retention.

- **Warranty**
  Warranty does not cover any damage caused by image retention.
  Burn-in is not covered by the warranty.

- **What is Image retention ?**
  During normal operation of a LCD panel, pixel image retention doesn't occur. However, if the same image is displayed for a long time, a slight difference in electric charge accumulates between the two electrodes which encase the liquid crystal. This may cause the liquid crystal to build up in a certain areas of the display. Thus, the previous image is retained when switching to a new video image. All display products, including LCD,are subject to image retention. This is not a product defect.

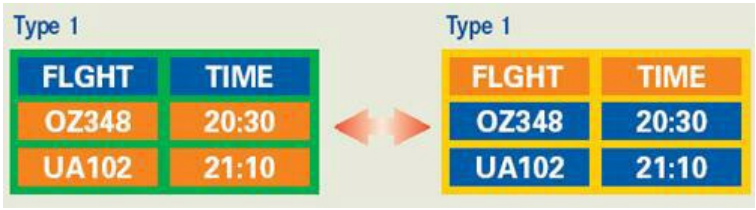
  Please follow the suggestions below to protect your LCD from image retention

- **Power Off, Screen Saver, or Power Save Mode**
  Ex)
  - Turn the power off when using a stationary pattern.
    - Turn the power off for 4 hours after 20 hours in use
    - Turn the power off for 2 hours after 12 hours in use
  - Use a Screen saver if possible
    - Screen saver in one color or a moving image is recommended.
  - Set the Monitor to power off with the PC Display Properties Power Scheme.

- **Suggestions for specific applications**
  Ex) Airports, Transit Stations, Stock Markets, Banks, and Controlling Systems
  We recommend that you follow set up of your display system program as below:

- **Display Information together with Logo or Moving image cycle.**
  Ex) Cycle : Display Information for 1 hour followed by a
  Display Logo or moving image for 1 minute.

- **Change the Color Information periodically (Use 2 different colors).**
  Ex) Rotate the Color Information with 2 colors every 30 minutes.



Avoid using a combination of characters and background color with large difference in luminance.
Avoid using Grey colors, which can cause Image retention easily.

- Avoid: Colors with big difference in luminance (Black & White, Grey)

Ex)

- Recommended settings: Bright colors with little difference in luminance

- Change the characters color and background color every 30 minutes

Ex)

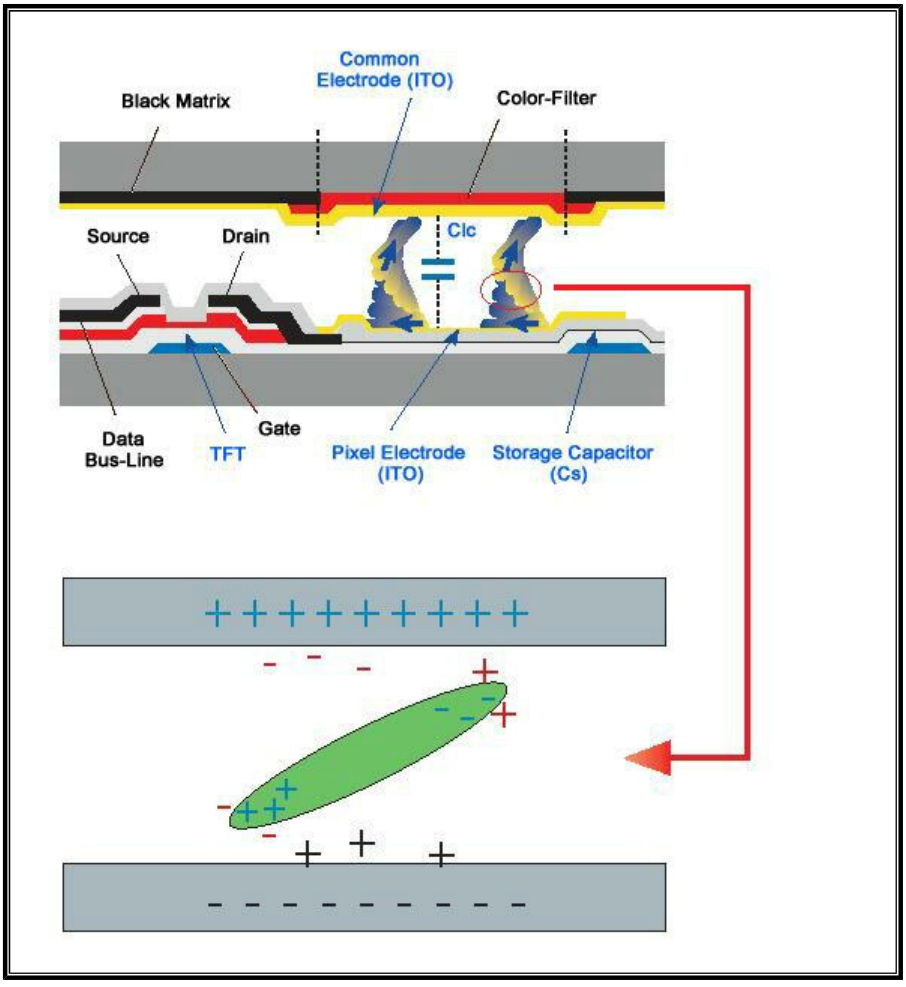
- Every 30 minutes, change the characters with movement.

Ex)

- **The best way to protect your monitor from Image retention is to set your PC or System to operate a Screen Saver program when you are not using it.**

  Image retention may not occur when a LCD panel is operated under normal conditions.

  Normal conditions are defined as continuously changing video patterns. When the LCD panel is operated for a long time with a fixed pattern (-over 12 hours-), there may be slight difference in voltage between electrodes that work the liquid crystal (LC) in a pixel. The voltage difference between electrodes increases with time, forcing the liquid crystal to lean. When this occurs, the previous image may be seen when the pattern is changed.
  To prevent this, the accumulated voltage difference must be decreased.



- Our LCD Monitor satisfies ISO13406-2 Pixel fault Class II

Correct Disposal of This Product
(Waste Electrical & Electronic Equipment) - Europe only

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.